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(54) **SYSTEMS AND METHODS FOR SWITCHING VISION CORRECTION GRAPHICAL OUTPUTS ON A DISPLAY OF AN ELECTRONIC DEVICE**

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ABSTRACT

A method of providing a graphical output may include scanning at least a portion of a user's face using a sensor; generating a depth map using the scan; and determining a similarity score between the depth map and a set of stored biometric identity maps that are associated with a registered user. In response to the similarity score exceeding a threshold, the user may be authenticated as the registered user. The method may further determine a corrective eyewear scenario, select a display profile that is associated with the corrective eyewear scenario, and generate a graphical output in accordance with the selected display profile.

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